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ABSTRACT

The outline lists 14 career education activities that middle school teachers (grades 6-8) can relate to subject areas of: science, mathematics, English, social studies, foreign language, art, home economics, music, and industrial arts. Educational requirements are described for various occupations; occupations also are listed under appropriate subject areas. Activities include: role playing, field trips, audiovisual aids, interviewing, panel discussions, job applications, career notebooks, and hobby displays. (EA)

SUGGESTED ACTIVITIES

FOR

RELATING BASIC SCHOOL SUBJECTS TO FUTURE CAREERS

BEST COPY AVAILABLE

An Exemplary Program for Occupational Preparation

at

Carver Middle School

(Grades 6-8)

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Exemplary Program for Occupational Preparation

New Orleans Public Schools

School Subjects and Your Career

This outline is designed to aid teachers in their effort to have students look at some of the basic school subjects and see how they are related to future careers - thus making school more meaningful and revelent to their needs.

It is suggested that teachers be concerned about giving students a background from which they can make knowledgeable vocational choices in later life. Therefore, students should have an opportunity over a long period of time to develop a reservoir of information, attitudes and experiences which will serve as a base when career decisions are made later.

In using this outline, some of the activities which teachers of science, mathematics, english, social studies, foreign language, art, home economics, music and industrial arts may employ in having pupils explore careers as they relate to subject areas are:

A. Role Playing

B. Have student volunteer to explore a career and report to the class the kind of work done, the qualifications and preparation needed, the industries in which employed, the earnings and conditions of work, and the empolyment outlook.

C. Use of Resource Persons

D. Bulletin Board Displays

E. Related Field Trips

F. Use of Filmstrips, Records and Films

G. Filling Out Job Application

H. Interviewing

I. Display Books and Materials Related To Careers

J. Have Students Make Posters and Charts of Occupations

K. Have Pupils Clip Out Job Information From Newspaper

L Panel Discussions

M. Development of Career Notebooks

N. Student may display and explain his hobby and relate careers to which his hobby could lead.

SCIENCE AND YOUR CAREER

Many professions require a year or two of science; for others, you will need four years, plus several additional years of graduate study. All scientific professions, of course, require substantial training in mathematics in addition to science courses.

Below are given three lists of occupations. The first list includes scientific occupations in which at least a bachelor's degree is required, and in many a master's or a Ph.D. degree is required:

Astronomers
Chemists
Engineers
Geographers
Geologists
Geophysicists
Meteorologists
Oceanographers
Physicists
Science teacher in college
Science teacher in high school

The following occupations are those in which you will need some post-high-school training in applied science, besides high-school science courses:

Biological scientists
Dentists
Dietitians
Foresters
Home economists
Nurses
Optometrists
Pharmacists
Physical therapists
Physicians
Soil conservationists
Soil scientists
Technical salespersons
Veterinarians

The list below includes some occupations in which high-school or vocational-school science courses are generally needed:

Air-conditioning and refrigeration mechanics
Automobile mechanics
Dental-laboratory technicians
Diesel mechanics
Electricians
Instrument makers
Instrument repairmen
Jewelers and jewelry repairmen
Linemen
Machinists
Photoengravers
Photographers
Plumbers and pipe fitters
Sheet-metal workers
Stationary engineers
Television and radio servicemen
Tool and die makers
Welders

MATHEMATICS AND YOUR CAREER

Mathematics is important in career planning in many ways. For many skilled trades, it is part of apprenticeship training, building on your high-school courses. Most colleges require high-school mathematics for entrance. Another need for mathematics is in applying for a job. Many large business organizations and government agencies give entrance examinations. Mathematics is almost always included as part of these examinations.

The list below names some occupations that require a considerable amount of college math, as well as high-school courses:

- Actuaries
- Astronomers
- Chemists
- College or high-school teachers of mathematics
- Engineers
- Geophysicists
- Mathematicians
- Physicists
- Statisticians

The following list indicates some occupations that require some college math but generally less than those in the previous list:

- Accountants
- Airplane pilots
- Air-traffic controllers
- Architects
- Bank officers
- Biological scientists
- Economists
- FBI agents
- Geographers
- Home economists
- Industrial traffic managers
- Marketing-research workers
- Meteorologists
- Pharmacists
- Political scientists
- Programmers
- Psychologists
- Purchasing agents

The following list includes those occupations in which high-school and vocational-school mathematics is important:

Airplane mechanics
Bank clerks
Bookkeeping workers
Bricklayers
Carpenters
Electricians
Instrument makers
Insurance clerks
Linemen
Machinists
Medical techonologists
Plumbers and pipe fitters
Sales workers
Sheet-metal workers
Tool and die makers

ENGLISH AND YOUR CAREER

There are many reasons why English is required in high school and college. For one thing, skill in the English language is basic to many jobs and is helpful to nearly everyone. Whether you are a sales-clerk or a doctor, you have to communicate with people orally. Whether you are a secretary, a newspaper reporter, or the president of a large bank, you have to be able to communicate in writing. Courses in English will help you to do this.

It is difficult to list occupations in which the study of English is helpful, since this is so in nearly every field. However, the list below illustrates the kinds of occupations for which the study of English is necessary or useful:

Actor, actress
Advertising copywriter
Announcer (radio and TV)
Lawyer
Librarian
Newspaper reporter
Printing occupations
Proofreader

Clergyman
Court reporter
Director (radio and TV)
Drama teacher
Editor
Hostess (restaurant)
Interviewer (marketing research)
Stewardess
Teacher
Technical writer
Public-relations worker
Receptionist
Salesman, saleswoman
Secretary, stenographer
Speech pathologist, audiologist
Telephone operator
Writer

SOCIAL STUDIES AND YOUR CAREER

There are many reasons to study the social sciences in addition to their relation to careers. Social sciences help one understand how our society works and how it got that way.

Listed below are some occupations which require study of the social sciences:

Advertising, marketing-research, and public-relations workers
Insurance agents
Lawyers
Librarians
Newspaper reporters

Anthropologists
Banking officers
Clergymen
Counselors
Dietitians
Economists
Engineers
FBI agents
Geographers
Historians
Home economists
Hospital administrators
Hotel managers
Industrial traffic managers
Nurses
Personnel workers
Physicians
Policemen and firemen
Political scientists
Psychologists
Purchasing agents
Radio and television program directors
Social workers
Sociologists
Teachers
Urban planners

FOREIGN LANGUAGES AND YOUR CAREER

Some occupations which come to mind are those of stewardesses, salespeople, diplomats, and hotel clerks and guides. Below is a list of only a few occupations for which a foreign language is needed or useful:

Actors
Advertising, marketing-research, and public-
Biological scientists
Chemists, physicists, astronomers
Geographers

relations workers
Geologists
geophysicists,
meteorologists
Hotel occupations
Librarians
Musicians
Newspaper reporters
Physicians
Secretaries
Social scientists
Social workers
Teachers
Waitresses

OTHER SCHOOL SUBJECTS AND YOUR CAREER

We have demonstrated how such basic subjects as English and mathematics are related to careers. Many courses not required in high school, but which one can choose, are also related to careers. Listed below are occupations related to certain high-school or college courses.

Occupations in which art is needed or useful:

Architect
Art critic
Art teacher
Artist
Cartoonist
Commercial artist
Decorator
Draftsman
Engraver
Fashion designer
Industrial designer
Interior designer
Jewelry designer
Landscape planner
Photographer

Occupations in which the study of home economics is necessary or useful:

Agricultural extension worker
Caterer
Chef
Cook
Dietitian
4-H Club worker
Home economics teacher
Home economist
Housekeeper
Institutional manager
Nurse
Nutritionist
Occupational therapist
Waiter or waitress

Occupations in which courses in music are needed or useful:

Arranger
Choirmaster
Choreographer
Composer
Concert director
Conductor
Dancer Musician
Cabinetmaker
Carpenter
Draftsman
Electrician
Engineer
Machine operator
Repairman
Shop teacher
Music librarian
Music teachrr
Piano tuner
Salesperson, musical instruments
Saleperson, records or sheet music
Singer
Machinist
Molder
Maintenance mechanic
Printer
Radio and television serviceman
Welder